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FILE 'USPAT' ENTERED AT 10:07:25 ON 04 MAR 96

W E L C O M E T O T H E

U. S. P A T E N T T E X T F I L E

=> s dmdp

L1 18 DMDP

=> s ll and macrophage?

3614 MACROPHAGE?

L2 0 L1 AND MACROPHAGE?

=> s immune(w) response?

18285 IMMUNE

447227 RESPONSE?

L3 3962 IMMUNE (W) RESPONSE?
=> s l3 and macrophage?
3614 MACROPHAGE?

L4 1085 L3 AND MACROPHAGE?
=> s l4 and inactivate?
16969 INACTIVATE?

L5 404 L4 AND INACTIVATE?
=> s l5 and dmdp
18 DMDP

L6 0 L5 AND DMDP
=> s l5 and dichloromethylene(w)diphosphonate
218 DICHLOROMETHYLENE
850 DIPHOSPHONATE
11 DICHLOROMETHYLENE (W) DIPHOSPHONATE

L7 0 L5 AND DICHLOROMETHYLENE (W) DIPHOSPHONATE
=> s macrophage? and dichloromethylene(w)diphosphonate
3614 MACROPHAGE?
218 DICHLOROMETHYLENE
850 DIPHOSPHONATE
11 DICHLOROMETHYLENE (W) DIPHOSPHONATE

L8 2 MACROPHAGE? AND DICHLOROMETHYLENE (W) DIPHOSPHONATE
=> d l8 1-2 cit,ab

1. 5,360,797, Nov. 1, 1994, Bisphosphonic acid derivatives useful as anti-arthritis agents; Roy A. Johnson, et al., 514/111, 102, 103, 104, 107, 110 [IMAGE AVAILABLE]

US PAT NO: 5,360,797 [IMAGE AVAILABLE]

L8: 1 of 2

ABSTRACT:

Novel acids, esters, and salts of phenyl, naphthyl, quinoxaliny, and biphenyl bisphosphonic acids and 1,2-oxaphosphopins are described. These compounds are useful as antiinflammatory and anti-arthritis agents. Also described are known compounds of the phenyl, naphthyl, quinoxaliny, and biphenyl bisphosphonate classes which are also useful as antiinflammatory and anti-arthritis agents. Representative compounds include [1,2-phenyldiyl]bis(methylene)bisphosphonic acid tetramethyl ester, [2,3-quinoxalindiyl]bis(methylene)bisphosphonic acid tetramethyl ester, [[3-(propyl)-4-(methoxy)-1,8-naphthalenediyl]bis(methylene)]bisphosphonic acid tetramethyl ester, [2,6-naphthalenediylbis(methylene)bisphosphonic acid tetraethyl ester, and [2,2'-biphenylenebis(methyl)]bisphosphonic acid tetramethyl ester. Representative oxaphosphopins include the preferred 3,4-dihydro-3-methoxy-7-(phenylmethoxy)-1H-naphth[1,8de][1,2]oxaphosphopin-3-oxide.

2. 5,298,498, Mar. 29, 1994, Phosphonic acid derivatives useful as anti-inflammatory agents; Roy A. Johnson, et al., 514/111; 558/82 [IMAGE AVAILABLE]

US PAT NO: 5,298,498 [IMAGE AVAILABLE]

L8: 2 of 2

ABSTRACT:

Novel acids, esters, and salts of phenyl, naphthyl, quinoxaliny, and biphenyl bisphosphonic acids and 1,2-oxaphosphopins are described. These compounds are useful as antiinflammatory and anti-arthritis agents. Also described are known compounds of the phenyl, naphthyl, quinoxaliny, and biphenyl bisphosphonate classes which are also useful as antiinflammatory and anti-arthritis agents. Representative compounds include

[1,2-phenyldiyl]bis (methylene)bisphosphonic acid tetramethyl ester, [2,3-quinoxalindiyl]bis(methylene)bisphosphonic acid tetramethyl ester, [[3-(propyl)-4-(methoxy)-1,8-naphthalenediyl]bis(methylene)]bisphosphonic acid tetramethyl ester, [2,6-naphthalenediylbis(methylene) bisphosphonic acid tetraethyl ester, and [2,2'-biphenylenebis(methyl)]bisphosphonic acid tetramethyl ester. Representative oxaphosphopins include the preferred 3,4-dihydro-3-methoxy -7-(phenylmethoxy)-1H-naphth[1,8de][1,2]oxaphosphopin-3-oxide.

=> e chen, ben/in

E1	1	CHEN, BEAN T/IN
E2	1	CHEN, BEI H/IN
E3	3 -->	CHEN, BEN/IN
E4	2	CHEN, BEN W/IN
E5	1	CHEN, BENJAMIN/IN
E6	3	CHEN, BENJAMIN S/IN
E7	2	CHEN, BENJAMIN T/IN
E8	1	CHEN, BENJAMIN Y H/IN
E9	1	CHEN, BERTHA L/IN
E10	1	CHEN, BI XIAN/IN
E11	2	CHEN, BIAO/IN
E12	1	CHEN, BIBIANA S Y/IN

=> e wiessman, irving/in

E1	1	WIESSE, JOACHIM/IN
E2	2	WIESSLER, HANS/IN
E3	0 -->	WIESSMAN, IRVING/IN
E4	9	WIESSNER, EDGAR/IN
E5	5	WIESSNER, EDWARD E/IN
E6	2	WIESSNER, FRANK/IN
E7	4	WIESSNER, MANFRED/IN
E8	1	WIESSNER, MARTIN G/IN
E9	1	WIESSNER, MARTIN GERALD/IN
E10	1	WIESSNER, WERNER/IN
E11	8	WIESSNER, WILLI/IN
E12	1	WIESSPEINER, GERHARD/IN

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